

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|--------------------------------|---|------------------|---------|------------------|
| L1 | 71164 | contact time | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L2 | 119302 | residence time | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L3 | 9252 | syngas | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L4 | 14122 | hydrocarbon feedstock | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L5 | 9829 | steam same reformer | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L6 | 23602 | superheated steam | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L7 | 181145 | L1 or L2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L8 | 12 | L7 and L3 and L4 and L5 and L6 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L9 | 1 | ("4872886").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2011/10/11 16:26 |

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| L10 | 130 | FEEDSTOCK REFORMER | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L11 | 130 | feedstock reformer | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L12 | 36 | L11 and syngas | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L13 | 1 | ("5073356").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2011/10/11 16:26 |
| L14 | 1018 | (423/650).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2011/10/11 16:26 |
| L15 | 3 | L14 and L10 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L16 | 889 | (423/418.2).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2011/10/11 16:26 |
| L17 | 0 | L16 and L10 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L18 | 132 | L16 and reformer | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L19 | 32 | L18 and syngas | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L20 | 37 | coal reformer | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |

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| L21 | 3 | L20 and syngas | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L22 | 27284 | reformer | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L23 | 815 | L22 same coal | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L24 | 165 | L23 same feedstock | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L25 | 78 | L24 and syngas | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L26 | 7900 | coal gasification | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L27 | 74 | L26 same reformer | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L28 | 24 | L27 and syngas | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L29 | 29 | L27 and (syntheses gas) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L30 | 95 | L28 or L25 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |

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| L31 | 38 | L28 or L29 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L32 | 1 | ("6773691").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2011/10/11 16:26 |
| L33 | 10 | syngas exit temperature | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L34 | 960 | exit gas temperature | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L35 | 36 | L24 same syngas | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L36 | 43 | L33 or L35 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L37 | 534 | L26 same L3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L38 | 41 | L37 and (exit gas) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L39 | 13 | L38 and reformer | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L40 | 10 | L38 and (contact time) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |

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| L41 | 20 | L38 and alcohol | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2011/10/11 16:26 |
| L42 | 1 | ("4046829").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2011/10/11 16:26 |
| L43 | 3 | ("2798888").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2011/10/11 16:26 |
| L44 | 2 | ("4041097").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2011/10/11 16:26 |
| L45 | 1 | ("5767165").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2011/10/11 16:26 |
| L46 | 51 | ((STANLEY) near2 (PEARSON)).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/10/11 16:26 |
| L47 | 8 | L46 and syngas | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/10/11 16:26 |
| L48 | 4 | wood same (feedstock adj reformer) | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2011/10/11 16:26 |
| L49 | 6 | Solid same material same (feedstock adj reformer) | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2011/10/11 16:26 |
| L50 | 235 | wood same syngas | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2011/10/11 16:26 |
| L51 | 5 | wood same syngas same reformer | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2011/10/11 16:26 |
| L53 | 284 | (518/706).CCLS. | USPAT; USOCR | OR | OFF | 2011/10/11 16:28 |
| L54 | 351 | (518/702).CCLS. | USPAT; USOCR | OR | OFF | 2011/10/11 16:28 |
| L55 | 421 | (518/704).CCLS. | USPAT; USOCR | OR | OFF | 2011/10/11 16:28 |

EAST Search History (Prior Art)

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| L56 | 538 | (518/713).CCLS. | USPAT; USOCR | OR | OFF | 2011/10/11 16:29 |
| L57 | 897 | (518/715).CCLS. | USPAT; USOCR | OR | OFF | 2011/10/11 16:29 |
| L58 | 1545 | I53 or I54 or I55 or 56 or I57 | US-PGPUB; USPAT | OR | OFF | 2011/10/11 16:29 |
| L59 | 84 | I58 and wood | US-PGPUB; USPAT | OR | OFF | 2011/10/11 16:29 |
| L60 | 25 | I59 and reformer | US-PGPUB; USPAT | OR | OFF | 2011/10/11 16:29 |

EAST Search History (Interference)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|----------------------------------|----------------|------------------|---------|------------------|
| L52 | 30 | ((STANLEY) near2 (PEARSON)).INV. | USPAT; UPAD | OR | OFF | 2011/10/11 16:28 |
| L61 | 0 | (518/706).CCLS. | UPAD | OR | OFF | 2011/10/11 16:30 |
| L62 | 2 | (518/702).CCLS. | UPAD | OR | OFF | 2011/10/11 16:30 |
| L63 | 1 | (518/704).CCLS. | UPAD | OR | OFF | 2011/10/11 16:30 |
| L64 | 0 | (518/713).CCLS. | UPAD | OR | OFF | 2011/10/11 16:30 |
| L65 | 0 | (518/715).CCLS. | UPAD | OR | OFF | 2011/10/11 16:31 |